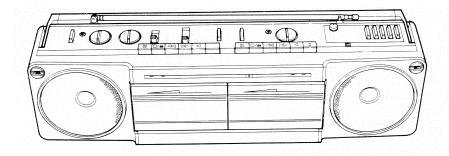
# JVC

# SERVICE MANUAL

# STEREO RADIO CASSETTE RECORDER

# MODEL RC-W3 L/LD



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### **Safety Precautions**

- The design of this product contains special hardware. Many circuits and components specially for safety purposes.
  - For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Repacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by (⚠) on the schematics and parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list in Service manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and/or the like to be separated from live parts, high temperature part, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.
  - When service is required, the original lead routing and dress should be observed, and they should be confirmed to be returned to normal, after re-assembling.
- 5. Leakage current check
  - (Safety for electrical shock hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the Products (antenna terminals, knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

Do not use a line isolation transformer during this check.

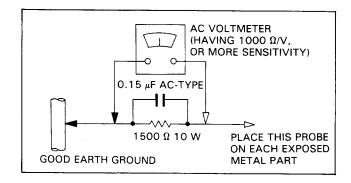
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5 mA AC (r.m.s.).
- · Alternate check method.

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1500  $\Omega$  10 W resistor paralleled by a 0.15  $\mu$ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.)

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).

This corresponds to 0.5 mA AC (r.m.s.).



#### **Features**

- 1. Fashionable stereo radio double cassette recorder with triple speed dubbing facility.
  - · Listen to one source while recording another or while dubbing.
  - Single pause release button for decks A and B to start dubbing simultaneously.
  - Single music scan mechanism in both direction (Deck A).
    - "Under license from Staar S.A., Brussels, Belgium."
  - Continuous playback from deck A to deck B.

- · Simultaneous mixing/recording facility.
- Built-in microphone (monaural).
- · Beat cut switch.
- 2. Total output of 12 W (6 W+6 W) Max. (3.2  $\Omega$ ), 5 W per channel at 10% THD (3.2  $\Omega).$ 
  - 2-way power supply (AC power cord or batteries).
  - 10 cm (4") full range speaker  $\times$  2.
  - AUX IN pin jacks.
  - DIN jack.

### **Specifications**

Speakers

: 10 cm (4")  $\times$  2, 3.2  $\Omega$ 

Frequency ranges

: FM 88-108 MHz

MW 540-1600 kHz SW 6-18 MHz

LW 150-350 kHz

**Antennas** 

: Telescopic antenna for FM & SW Ferrite core antenna for MW & LW

Track system

: 4-track 2-channel stereo

Motors

: Electronic governor DC motor for

capstan × 2 (for Deck A & B)

Heads

: Deck A; Hard permalloy head for playback Dummy head for erasure Deck B; Hard permalloy head for recording/playback, 2-gap ferrite

head for erasure

Tape speed

: At normal speed;

4.8 cm/sec (1-7/8 inch/sec)

At triple speed;

14.3 cm/sec (5-3/4 inch/sec)

Wow and flutter

Frequency response: 60-13,000 Hz

Fast wind time

: 0.16% (WRMS) : Approx. 110 sec. (C-60 cassette)

Input terminals

: MIC × 1 (Min. input level: 2 mV

(-54 dBV)

Matching impedance:

 $(200 \Omega - 2 k\Omega)$ 

AUX  $\times$  2 (250 mV/47 k $\Omega$ )

Output jacks

: PHONES × 1 (Output level:

 $0\sim60 \text{ mW/}32 \Omega$ , Matching

impedance:  $8 \Omega - 32 \Omega$ )

DIN (REC/PB) jack

: Min. input level: 0.6 mV/kΩ Input impedance: 10 kΩ Output level: 0.3 V

Output impedance: 10 kΩ

Power output

: Total output of 12 W (6 W + 6 W) Max. (3.2 Ω), 5 W per chan-

nel at 10% THD (3.2 Ω)

Power sources

: AC 240/220/110 V, 50/60 Hz

DC 12 V ("R14"×8)

Power consumption: 17 watts (with power switch on) 1.1 watt (with power switch off)

**Dimensions** 

:  $532(W) \times 149(H) \times 133(D)$  mm

 $(21" \times 5-7/8" \times 5-1/4")$ including knobs and handle

Weight

: Approx. 3.9 kg (8.6 lbs)

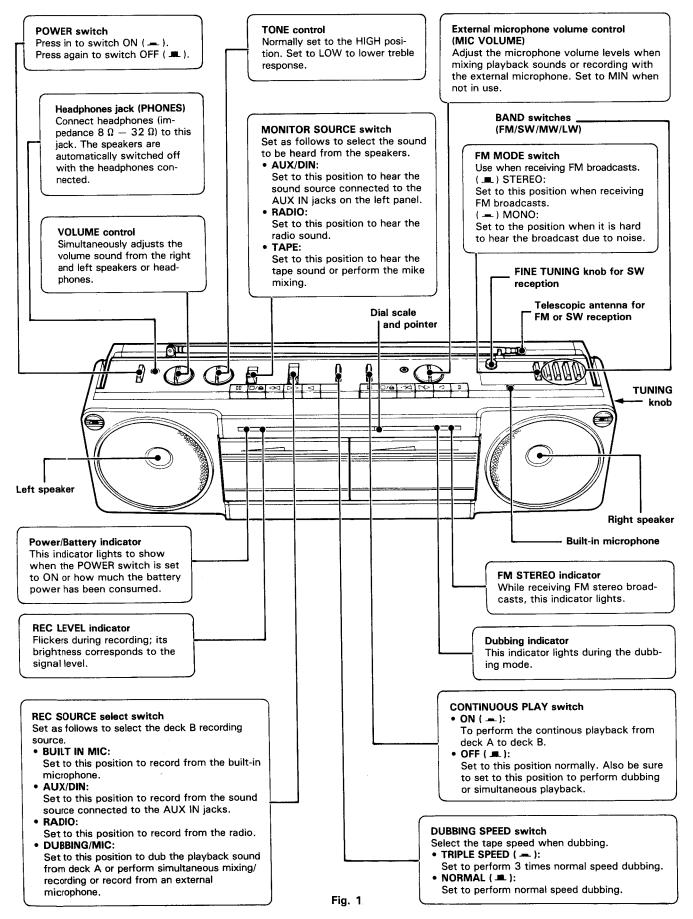
with batteries

Approx. 3.5 kg (7.7 lbs)

without batteries

Design and specifications are subject to change without notice.

### Names of Controls and Their Functions



#### Cassette operation buttons (Deck A) II PAUSE button Press to stop the tape temporarily. To release the pause mode, press again this button. **■**/**△** STOP/EJECT button

Press to stop the tape. Pressing this button after the tape stops opens the cassette holder

FF button

Press this button to fast wind the tape from right to left.

In addition, this button is also used for music

**REW** button

Press to wind the tape rapidly from left to right. In addition, this button is also used for music scanning. **PLAY button** 

Press to play or scan the tape. SYNCHRO PAUSE RELEASE button Press to release the pause modes of decks A and B simultaneously for dubbing.

MIC/(MIXING MIC) jack

When recording or mixing using microphone, connect microphone (with an impedance of 200  $\Omega$  to 2  $k\Omega)$  to this jack. In the monaural mode, the sound from the microphone will be emitted from the right and left speakers.

#### Cassette operation buttons (Deck B)

II PAUSE button

Press to stop the tape transport temporarily. Press again to release the pause mode.

**■**/**≜**STOP/EJECT button

Press to stop the tape while the tape is moving or to open the cassette holder during the stop mode.

FF button

Press to fast forward the tape from right to left.

**REW button** 

Press to fast rewind the tape from left to right.

**PLAY** button

Press to play back the tape.

 $\cap$ REC button

Press this button together with the ⊲ PLAY button for recording (or dubbing).

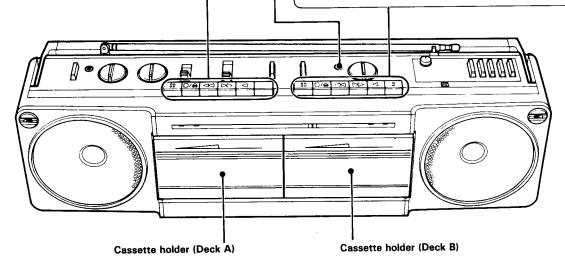
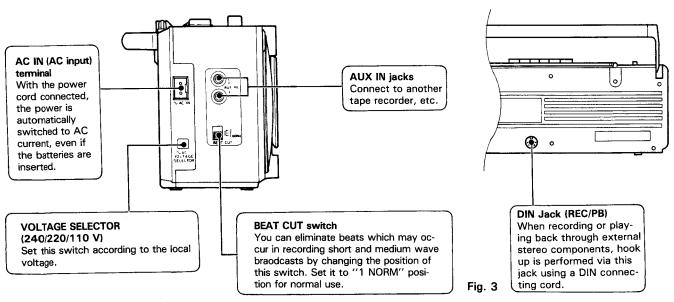


Fig. 2



# **Location of Main Parts**

#### Rear side view

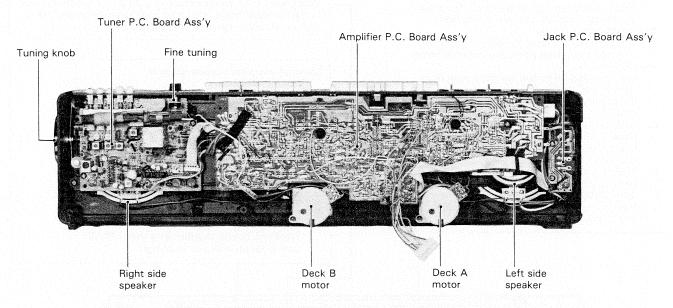


Fig. 4

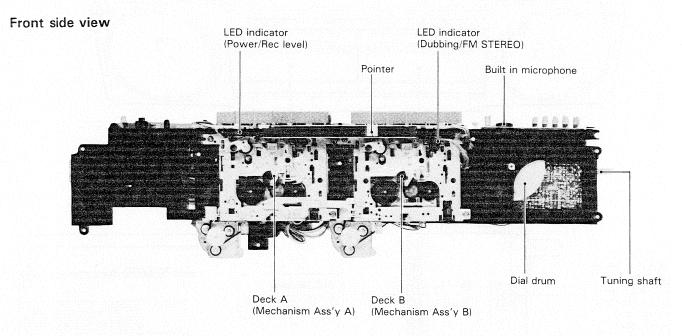
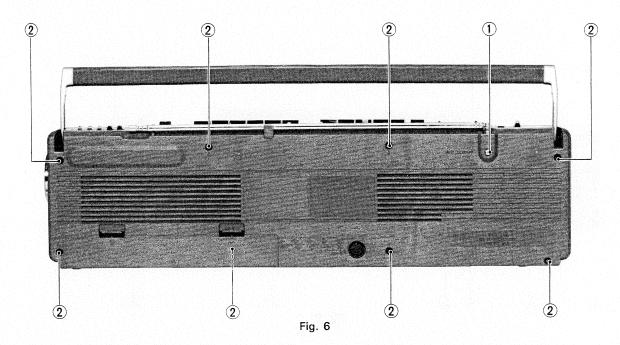


Fig. 5

## **Removal of Main Parts**

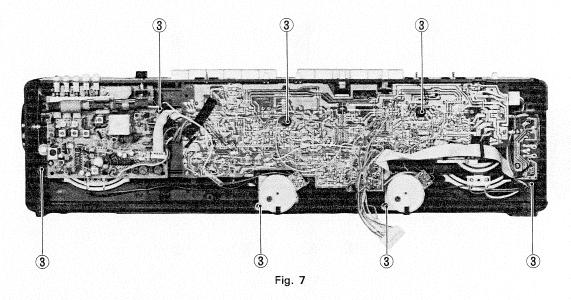


#### Replacing the rod antenna (Fig. 6)

1. Pull out screw (1): SDSP3010R, then replace the rod antenna.

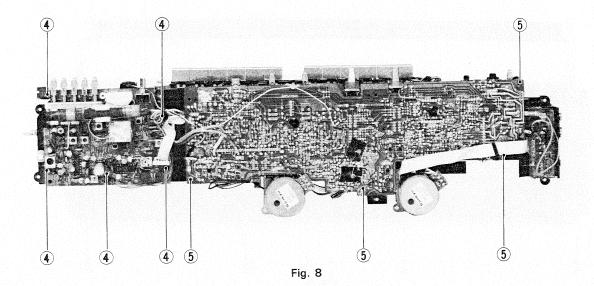
#### Removing the rear cabinet (Fig. 6)

- 1. Unscrew eight screws (2): SBSF3035Z.
- 2. Remove the antenna, then pull out the receptacle wire from the power supply P.C. Board.
- 3. Remove the connector on Din P.C. Board.



#### Removing the chassis Ass'y (Fig. 7)

- 1. Unscrew seven screws (3): SBSF3014C.
- 2. Remove the tuning knob and push knob from the tuner P.C. Board, then remove the volume knob from the Amp P.C. Board.
- 3. Disengage speaker connector wire CN801, then remove the chassis Ass'y sliding it towards the tuner P.C. Board (Left).



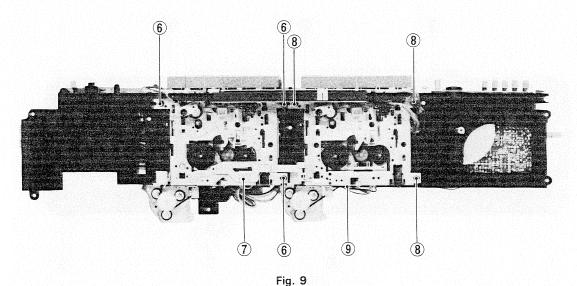
#### Removing the tuner P.C. Board (Fig. 8)

Unscrew four screws 4: SBSF3010Z, then disengage the parallel wire of CN1 to remove the tuner P.C. Board. (For the direction of insertion, see the servicing diagram of the P.C. Board.)

#### Removing the Amp P.C. Board (Fig. 8)

1. Unscrew four screws (5): SBSF3010Z, then remove the Amp P.C. Board from the chassis.

(Note) When installing it again, position the lever so that the REC button operation is interlocked with the REC/PLAY select switch.



# Removing the cassette mechanism Ass'y (A) (Fig. 9)

- 1. Unscrew three screws 6: SBSF3008Z and collar screw 7 to remove the lever Ass'y.
- 2. Disengage connectors CN802 and CN804 to remove the cassette mechanism Ass'y (A)

# Removing the cassette mechanism Ass'y (B) (Fig. 9)

- 1. Unscrew three screws 8: SBSF3008Z and screw 9: SDST2605Z.
- 2. Disengage connector CN803, then unsolder the head wire from the Amp P.C. Board.

#### Removing the Mechanism Parts

Also see the exploded view of the cassette mechanism Ass'y on page 28.

#### Removing R/P head (6) (Fig. 10)

- 1. Unsolder the head wire.
- 2. Unscrew screws (9) and (10) to remove the R/P

(When installing it again, be sure to refer to the standards for the cassette mechanism on page 12.)

#### Removing erase head (11) (Fig. 10)

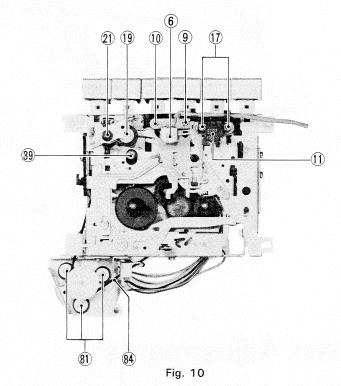
1. Unscrew two screws (17) to remove the erase head. (In the case of mechanism B, unsolder the head wire.)

#### Removing pinch roller Ass'y (19) (Fig. 10)

1. Pull out stopper (21), then remove the pinch roller Ass'y together with the pinch roller spring.

#### Removing motor Ass'y 85 (Fig. 10 and 11)

- 1. Disengage main belt 84 .
- 2. Remove three screws (81) .
- 3. Unsolder the wires to remove the motor Ass'y.



#### Removing flywheel Ass'y (Fig. 10 and 11)

- 42) and (118), then remove 1. Unscrew screws flywheel bracket (41)
- 2. Disengage main belt (84) .
- 3. Pull out washers (39), taking care not to lose them. (When installing them again, screw 42) cannot be fully tightended. It is ok as long as there is no clearance with the bracket.)

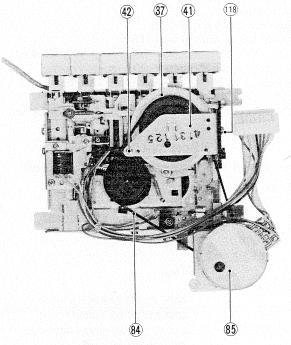
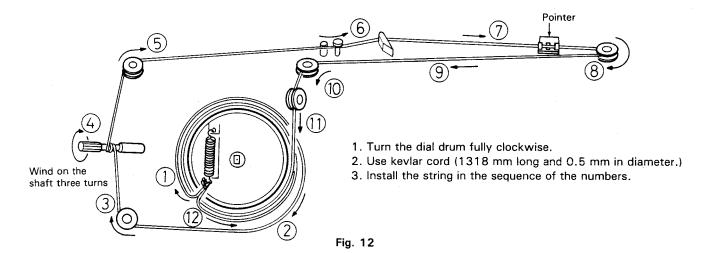


Fig. 11

### **How to Engage Dial Cord**



### **Main Adjustments**

#### [I] Equipment and Measuring Instruments used for Adjustment

- 1. Electrical adjustment
  - 1) Electronic voltmeter
  - 2) Audio frequency oscillator (range: 50-20 kHz and output 0 dB with impedance 600 Ω)
  - 3) Attenuator
  - 4) Standard tapes for REC/PB

Maxell UD - Normal tape (TS-5) TDK SA - Chrome tape (TS-6) or equivalent JVC ME — Metal tape (TS-7)

5) Reference tapes for playback (JVC Test Tape) VTT702 (for head azimuth adj. (10 kHz)) VTT712 (for motor speed, wow flutter adj.) or **VTT656** 

VTT664 (for reference level 1 kHz)

VTT739 (for playback frequency response)

VTT6447 (for music scanning) VTT6448 (for music scanning)

6) Resistors

600  $\Omega$  (for attenuator matching)

2. Mechanical adjustment

Torque testing cassette gauge.

3. Tuner section adjustment

SSG (standard signal generator). Sweep signal generator.

#### Adjustment of the Cassette Amplifier Section

[Conditions]

: AC 240/220/110 V Power supply

or DC12V

Volume : High

Tone : High MONITOR SOURCE

switch

: Tape

switch

REC SOURCE select

: AUX (DUBBING in the triple

speed dubbing mode)

**DUBBING SPEED** switch

: During normal speed dubbing, set to NORMAL ( ...... ).

During triple speed dubbing, set to TRIPLE SPEED ( - ).

**CONTINUOUS PLAY** 

switch : OFF ( 💻 ).

Output jack : A load of 3.2  $\Omega$  is connected

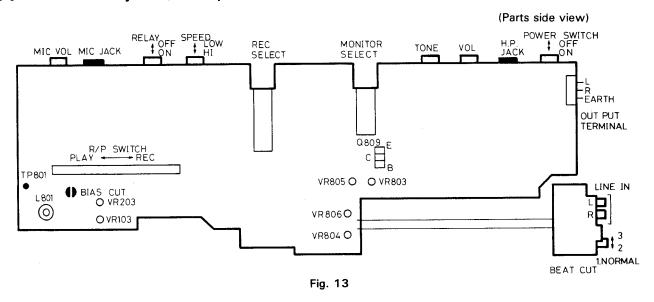
across speaker connector

CN801.

: AUX IN -8 dBs Rated input

**BEAT CUT switch** : 1 NORM

#### [II] Location of Adjustment (Amplifier and Mechanism)



#### [III] Adjustment

ltem	Tape used	Adjustment method	Adjusting point
Head azimuth ad- justment	Test tape VTT 658 (10 kHz)	Using side A, adjust so that phase difference is minimum when the output is maximum.	R/P head azimuth adjustment screw
2. Tape speed adjustment and wow & flutter check	Test tape VTT 656 (3 kHz)	Mechanism A During normal speed dubbing: 3,000 Hz $\pm$ 10 Hz During triple speed dubbing: 9,030 Hz $\pm$ 30 Hz Mechanism B During normal speed dubbing: 2,990 Hz $\pm$ 10 Hz During triple speed dubbing: 9,000 Hz $\pm$ 30 Hz Adjust to the above-mentioned frequencies. Adjust in the order of normal speed dubbing, then triple speed dubbing. During the triple speed dubbing adjustment, shortcircuit between the collector and emitter of Q809. Wow and flutter should be 0.35% or less (JIS·RMS).	VR803 VR805 VR804 VR806
Bias frequency adjustment		Adjust so that the frequency at erase head test point TP801 is 86 kHz. Connect a 100 k $\Omega$ resistor in series with the counter. (during normal speed dubbing)	L801
Bias current     adjustment	TS-5: Normal	Input 1 kHz and 8 kHz signals with a level of $-20$ dB (specified input) to AUX IN, then alternately record them using mechanism B. Adjust so that the difference in level between these signals is $0\pm1.5$ dB when they are played back.	VR103 VR203
5. Checking the record/playback frequency response	TS-5: Normal	Input 1 kHz, 125 kHz and 8 kHz signals with a level of $-20$ dB (specified input) to AUX IN, then alternately record them using mechanism B. When they are played back, 125 Hz should be $-3$ dB $\pm$ 3 dB with respect to 1 kHz. 8 kHz should be 0 dB $\pm$ 3 dB with respect to 1 kHz. When test tape VTT 674N is dubbed in the triple speed dubbing mode, 125 Hz should be $-1$ dB $\pm$ 3 dB with respect to 1 kHz. 8 kHz should be 0 dB $\pm$ 4 dB with respect to 1 kHz.	
6. Checking the playback output level (at DC 12 V)	Test tape VTT 663 (1 kHz)	The level should be 4 W (3.6 V/3.2 $\Omega$ ) or more.	

(Note) Complete tape speed adjustment within 30 seconds following running for one minute or more.

#### [IV] Standards for the Cassette Mechanism

Check the following items when the cassette mechanism parts have been replaced.

Item	Standard	Test method	Tape used
1. Supply voltage	Rated voltage: DC 12 V Voltage range when the motor is used: DC 8.6 to 13.0 V	Constant-voltage regulated power supply	
2. Tape speed	4.8 cm/s 2,970 to 3,045 Hz (3000 Hz) (Mechansim A) 2,955 to 3,030 Hz (Mechansim B) Variation: within 30 Hz	Digital frequency counter	VTT 656 or VTT 712
3. Wow & flutter	0.35% or less (JIS. RMS)	Wow meter	VTT 656
4. Winding torque	PLAY 35-75 g.cm  FF 80-200 g.cm (mechanism A) 60-200 g.cm (mechanism B)	In the PLAY mode, there should be no slippage between the idler, reel, and take-up pulley when the reel is locked. Use torque gauge CTG-N (manufactured by	
	REW 80-200 g.cm (mechanism A) 60-200 g.cm (mechanism B)	Tonichi or equivalent)	
5. Current consumption (Motor only)	PLAY Until the tape comes to the end 150 mA or less  Until the tape comes to the end 200 mA or less  REW	DC ammeter	C-60 Use a tape which is free from abnormality in winding torque.
6. Clamping force of the pinch roller	375—475 g	Pull the pinch roller in the vertical direction using the tension gauge, then measure the force when the pinch roller stops rotation.  (The mechanism is in the vertical state.)	
7. Thrust wobble of the flywheel	0.1-0.3 mm	Clearange gauge	
8. Position of the heads during the PLAY and REC modes (in the music scan mode)	When set to the PLAY (REC) mode, dimensional distribution of the heads should not come into the tips of the heads should not come into the tips of the heads should not come into the tips of the heads should not come into the tips of the heads should not come into the tips of the heads should not come into the tips of the tips of the heads should not come into the tips of the heads should not come into the tips of the heads should not come into the tips of the heads should not come into the tips of the heads should not come into the tips of the heads should not come into the heads sh	contact with a cassette shell.	Any cassette tape
9. Auto stop opera- tion	Cassette guide  Auto stop detection pres	3.5 ~ 5.5 mm	Any cassette tape
10. Fast winding time	FF 110 seconds or less REW 110 seconds or less		C-60

#### [V] Tuner Alignment

#### BASIC CONDITIONS

	DC 12 V
POWER SOURCE OF THE RECEIVER	AC240/220/120 V, 50/60 Hz:
LOAD RESISTANCE OF THE RECEIVER	50 mW (0.4 V)/3.2 Ω
MODULATION OF SSG	400 Hz. 30%
Item	Description
1. AM IF ALIGNMENT	
1-1 Conditions of the receiver.	
(1) Power source:	DC 4.5 V (only Tuner P.C. Board)
	(When the power is supplied directly to the tuner in the
	receiver, the voltage should be adjusted to the proper level
	which shall be required by the tuner.)
(2) Function switch position:	RADIO
(3) Band select switch:	MW
(4) Volume control:	Minimum gain position
(5) Tone control:	High position
(6) Variable capacitor:	Near the minimum capacity position where no signal come in.
1-2 Connection of Sweeper and the receiver	
(1) Tuner input:	Positive side to TP4
(2) Tuner output:	Positive side to TP2
	Negative side to TP3
1-3 Aligning position:	T3, T4
1-4 Alignment (Waveform):	Adjust AM I.F.T. (above mentioned aligning position) so that
	maximum and symmetrical wave form can be obtained.
	In this case, the wavehead should be appeared at the center
<del></del>	marker (450 kHz) on the scope of Sweeper.
<ul> <li>2-1 Conditions of the receiver</li> <li>(1) Power source:</li> <li>(2) Function switch position:</li> <li>(3) Band select switch:</li> <li>(4) Volume control:</li> <li>(5) Tone control:</li> </ul>	Same as mentioned in item 1-1 RADIO FM Minimum gain position High position
(6) Variable capacitor:	Near the minimum capacity position where no signal come in.
2-2 Connection of Sweeper and the receiver	
(1) Tuner input:	Positive side to TP1 (body of C5 or R5)
(2) Tuner output:	Positive side to TP2
	Negative side to TP3
a) Attach a capacitor (30 pF) and resistor (30	$0~\mathrm{k}\Omega$ ) in series to the positive side cable which shall be led from
Sweeper input.	
<ul> <li>b) Attach a capacitor (30 pF) and a resistor ( from Sweeper output.</li> </ul>	100 k $\Omega$ ) in series to the positive side cable which shall be led
2-3 Aligning position:	a) IF Waveform: T1
	b) Discriminate Waveform: T2
	("S" curve waveform)
2-4 Alignment (Waveform):	Adjust the discriminate coil (T2) so that "S" curve waveform
	may be changed to IF waveform as shown in following figure.
	After above, adjust T1 so that max, sensitivity and symmetrical IF waveform can be obtained on the scope of Sweeper.
b) Discriminate Waveform:	Adjust the discriminate T2 again so that above symmetrical IF
5, Discinninge Waveronn.	waveform may be changed to balanced "S" curve waveform.

#### Description ltem 3. AM RF ALIGNMENT 3-1 Conditions of the receiver. (1) Power source: Same as mentioned in item 1-1. **RADIO** (2) Function switch position: 50 mW (3) Volume control: Center position (4) SEA control: Refer the following list shown in item 3-4. (5) Variable capacitor: 3-2 Conditions of SSG. (1) Modulation: Refer the basic condition (2) Frequency: Refer the following list shown in item 3-4. Approx. 50 mW (3) Output level of the attenuator in SSG: 3-3 Power output measuring position: Speaker terminals 3-4 Alignment: Noise may be introduced by the VTVM into AM (MW) signals due to the mislocation of the measuring instrument. In such a case, use the jigs as illustrated. Band Select | Sort of Antenna to be Aligning

	Switch Position	attached to SSG	Frequency of SSG	Variable Capacitor Position	Position
1			145 kHz	Max. capacity	L6
2			360 kHz	Min. capacity	TC-6
3	LW	Loop Antenna		ng position (L6 & TC-6) repeated above frequency range (ban	•
4	-		160 kHz	to be received 160 kHz	L2
5			350 kHz	to be received 350 kHz	TC-2
6			Adjust the above aligni the tuner can be obtain	ng position (L2 & TC-2) repeatened the best sensitivity.	edly so that
7		VAN-2	520 kHz	Max. capacity	L7
8			1,650 kHz	Min. capacity	TC-7
9	MW	Loop Antenna		ing position (L7 & TC-7) repeat red above frequency range (ban	•
10	1		620 kHz	to be received 620 kHz	L3
11	1		1,400 kHz	to be received 1,400 kHz	TC-3
12			,	ing position (L3 & TC-3) repeat ned the best sensitivity.	edly so that
13			5.8 MHz	Max. capacity	L8
14			18.6 MHz	Min. capacity	TC-8
15	sw	Dummy Antenna		ng position (L8 & TC-8) repeate red above frequency range (band	
16	7		6 MHz	to be received 6 MHz	L4
17	7	Note Connect a	18.0 MHz	to be received 18.0 MHz	TC-4
18		Telescopic antenna to TP-5	,	ing position (L4 & TC-4) repeat ned the best sensitivity.	edly so that

	lte	em		Description		
4. F	M RF ALIGNMENT	•				
4-1	Conditions of the	receiver.				
(1)	Power source:		Same as mentioned	d in item 1-1.		
(2)	Function switch p	position:	RADIO			
(3)	Band select switch	ch:	FM			
(4)	, , , , , , , , , , , , , , , , , , , ,		50 mW			
(5)	( ) , , , , , , , , , , , , , , , , , ,		Center position			
(6)	(6) Variable capacitor:		Refer the following	list shown in item 4-3.		
4-2	Condition of FM	SSG.				
(1)	Modulation:		Refer the basic cor	ndition		
(2)	Frequency:		Refer the following list shown in item 4-3.			
(3)	Output level of th	ne attenuator in FM				
	SSG:		The level shall be o	decided by the load resistance	of the receiver	
			mentioned in the b	asic conditions.		
4-3	Alignment:					
	Band Select Switch Position	Sort of Antenna to be attached to SSG	Frequency of FM SSG	Variable Capacitor Position	Aligning Position	
1			87.5 MHz	Max. capacity	L5	
2			109.0 MHz	Min. capacity	TC-5	
3	FM	Dummy Antenna	_	ning position (L5 & TC-5) repeatived above frequency range (bat		
4	1		90 MHz	to be received 90 MHz	L1	
5			106 MHz	to be received 106 MHz	TC-1	
6			Adjust the above alig	ning position (L1 & TC-1) repe	atedly so	

#### **FM MPX Alignment**

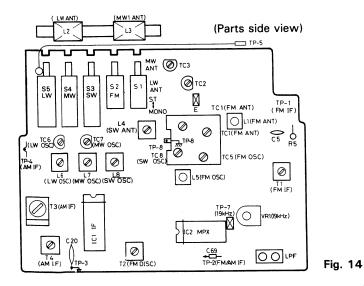
6

19 kHz Alignment (Regular Method)

- 1. Connect a frequency counter to the test point TP7 (earth = TP3).
- 2. Supply the monaural signal (98 MHz, 60 dB) across the antenna terminal.
- 3. Adjust the variable resistor VR1 so that the frequency becomes 19 kHz ± 100 Hz.

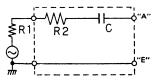
Note: Attach a resistor (100  $k\Omega$ ) to the positive side cable shall be led from counter input.

#### Parts Arrangement for Alignment



#### **Dummy Antenna**

that the tuner can be obtained the best sensitivity.



 $R_1 + R_2 = 80 \Omega$  "A" C = 10 pF"E" → TP-8 R<sub>1</sub>: Output impedance of S.S.G.

Fig. 15

# **Block Diagram**

#### Playback System

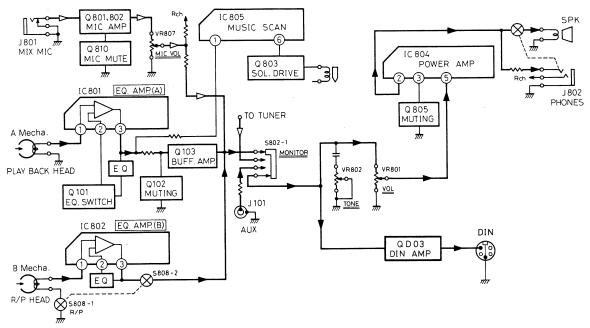
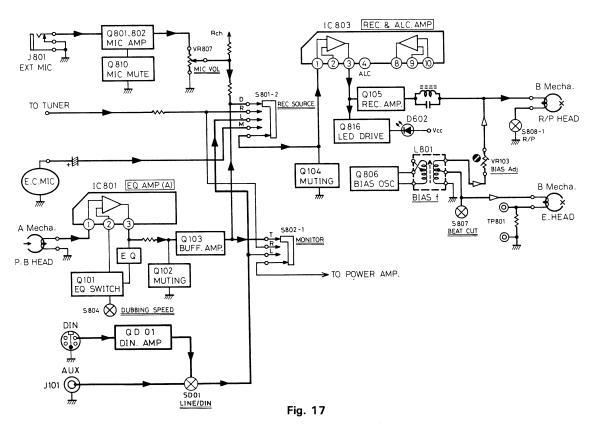
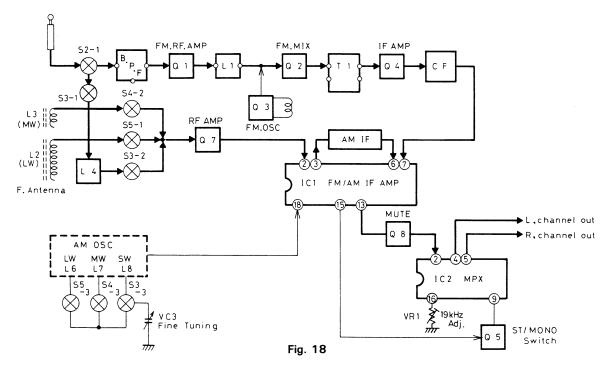


Fig. 16

#### **Recording System**

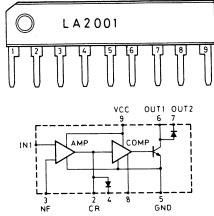


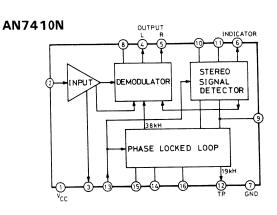
#### **Tuner System**



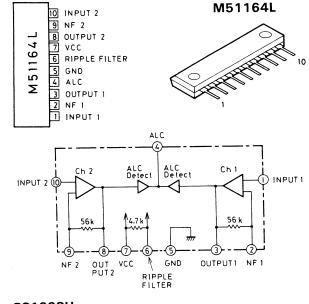
# **Integrated Circuit**







#### M51164L





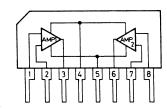
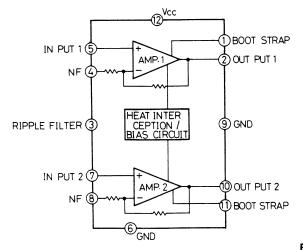


Fig. 19-A

#### TA7233P

#### **AN7222N**



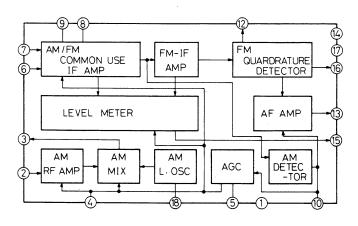


Fig. 19-B

# Standard Schematic Diagram of RC-W3 L/LD

(DIN Circuit)

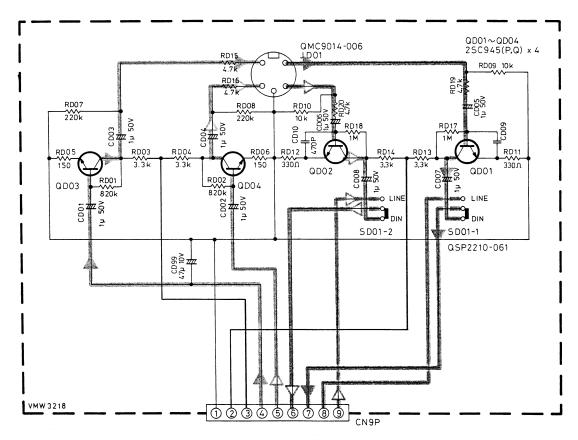


Fig. 20

Blue line shows the signal at playback. Red line shows the signal at recording. +B Circuit.

#### Standard Schematic Diagram of RC-W3 L (Tuner Circuit) 8 10 ROD ANT. FM OSC 2SA1005(L FM IF 2SC930(E) VOT7F12-104M 2SA1005(L) R3 22 VBP4M3B-003 E04365-004 ANTENNA Ė S5-2 BAR VOBO В $VC 1-1 \sim VC 2-2$ QAP1224-521V R38 820 C71 0.0018µ V0P0001-393S × 2 D7 MA165 R45 1/4W C72 1 0.0018 µ MW 4.5V S3-2 C65 + 4.7µ 50V VQC1304-001 VQP0012-8R2 104(H) Q7 R24 1/4 W 47µ 10V 67800 R46 IC 1 AN7222N FM/AM IF AMP IC 2 AN7410N FM MPX AM RF AMP 08 VQL7T19-301 L6(LW) D 25K246(GR) 47µ 53+ 50V C41 470P MUTE SWITCH VQM7U01-301 L7(MW) -VVV-10 k 9kHz Adj S1 5.6k ST ST Ε VQR7002-3 L8(SW) Q5 2SC945(P,Q) R29 10k MONO/ST SWITCH 1. VOLTAGE VALUES ARE MEASURED WITH NO SIGNAL USING. ELECTRONIC VOLT METER. 4.0 4.0 4.0 4.0 3.8 0 4.5 1.3 4.5 0.1 1.4 1.4 0.4 (4.0) (4.0) (4.0) (4.0) (4.0) (4.0) (4.0) (4.0) (4.0) (4.0) (4.0) (4.0) (4.5) (0.8) (4.5) (0.1) (0.1) (0.1) (4.3) 0 0.1 0.3 0.3 (4.3) (4.3) (1.0) (0.7) 2.S1 (MONAURAL-STEREO SWITCH) IS STEREO POSITION. 1.3 1.3 0.3 \$2~5(BAND SELECT SWITCH) IS FM POSITION. 1.3 1.3 2.1 1.3 [2p-p] 0.5 S1∼S5---QST3521-V01 Blue line shows the signal at FM. \$1 \$2 \$3 \$4 \$5 1 1 2 1 2 2 1 2 3 @ 3 @ 3 @ 3, LAST NO. R50 - C72

4. BLANK NO. R32,35,36,39,41

C34,43,47,50,53,57,63,68

5. RATING OF RESISTORS IS 1/6W UNLESS OTHERWISE SPECIFIED.

1.5

2.8 0.6 0.35 [0.6] VOLTAGES POSITION : FM , (AM) , [FM SIGNAL] / UNIT ; VOLT

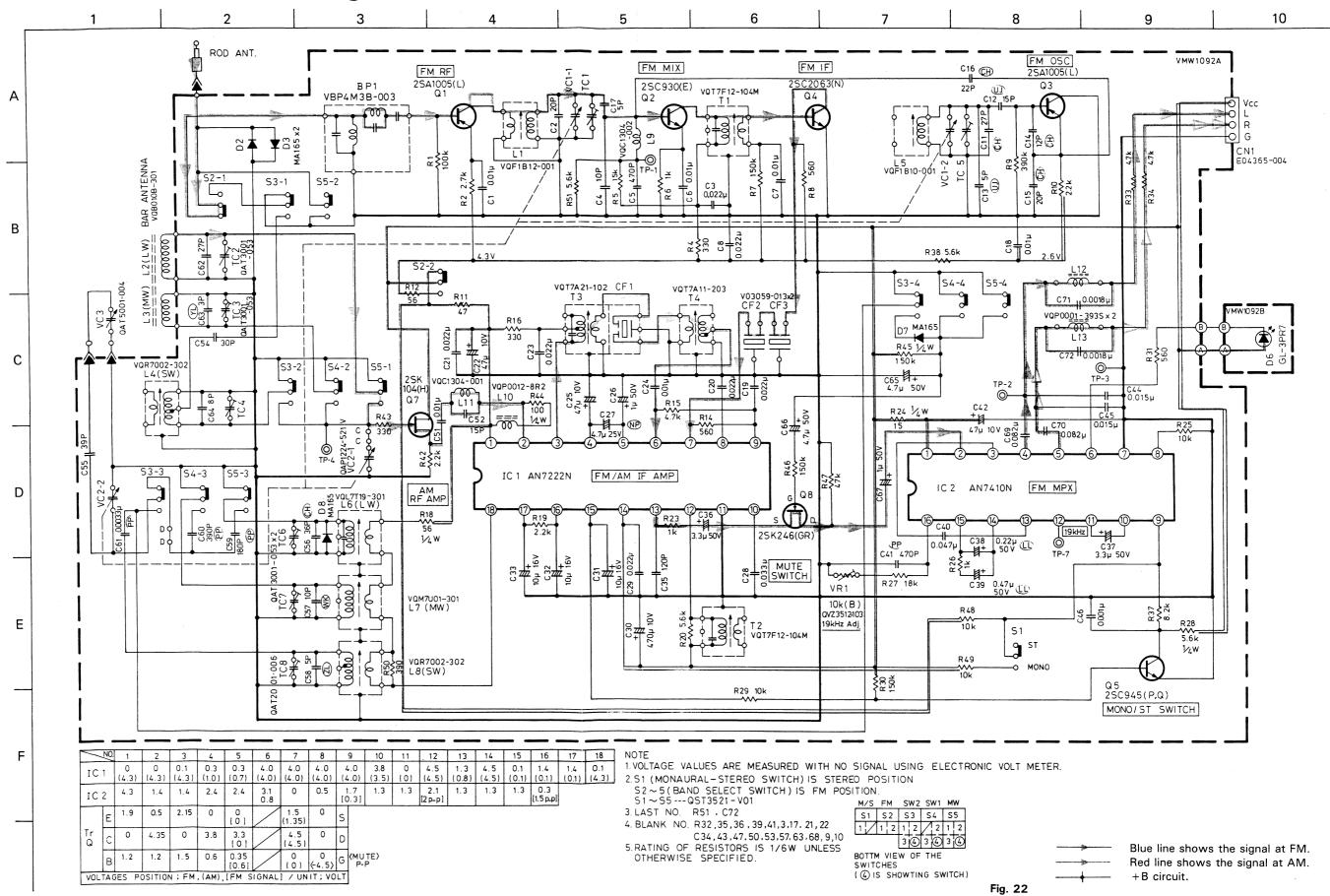
4.5 0 D

Fig. 21

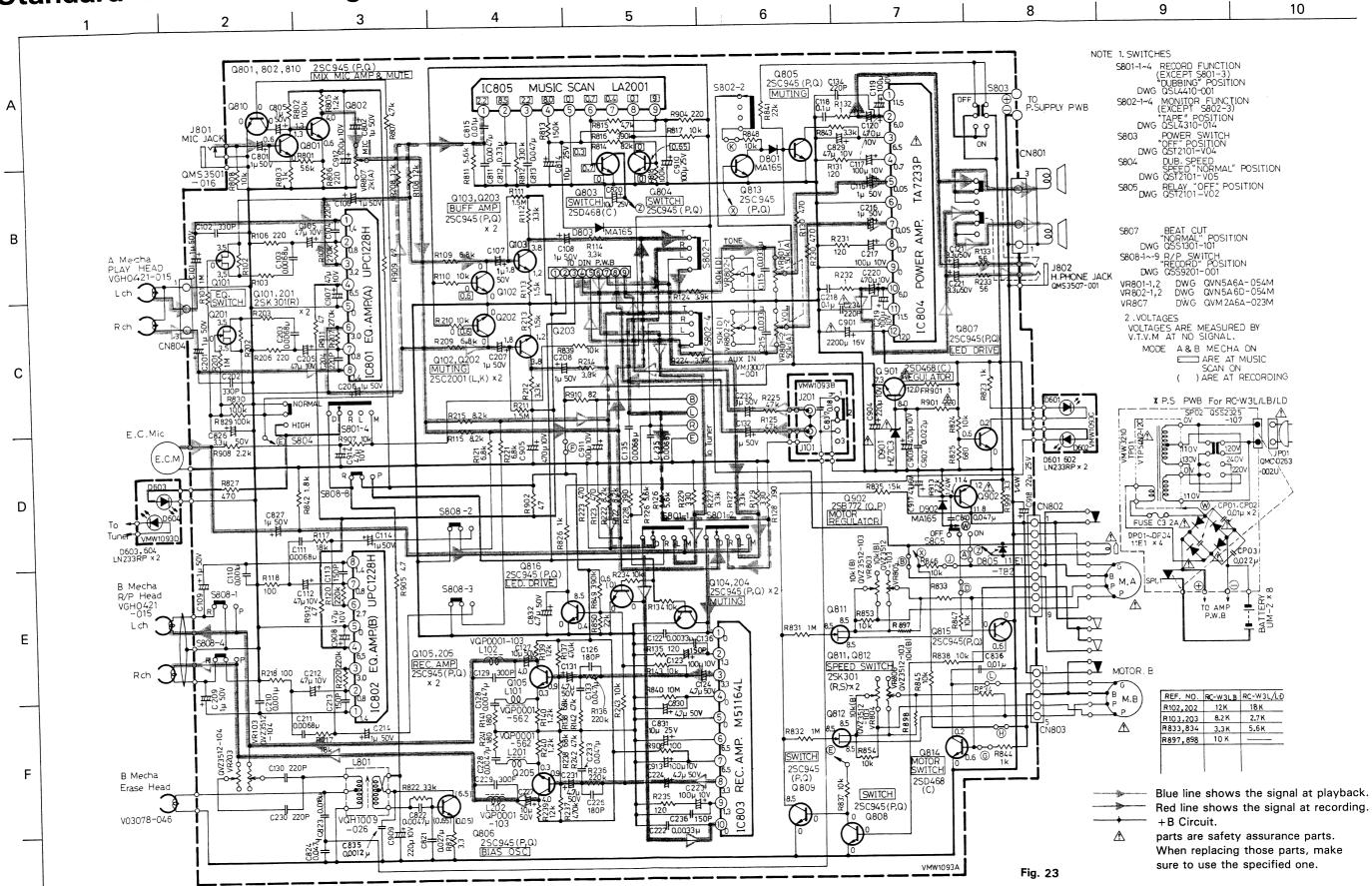
BOTTM VIEW OF THE SWITCHES
( (4) IS SHOWTING SWITCH) Red line shows the signal at AM.

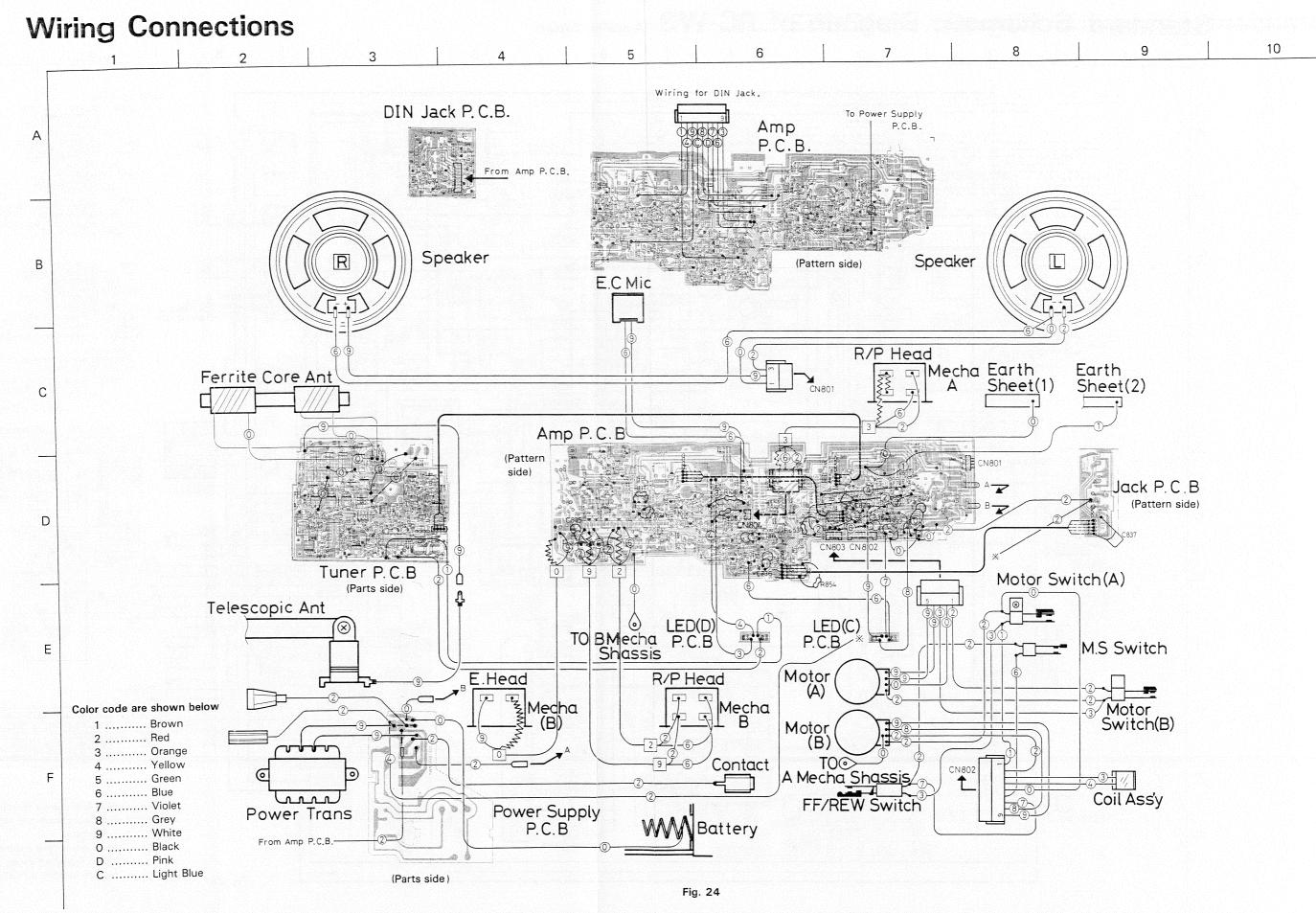
+B circuit.

# Standard Schematic Diagram of RC-W3 LD (Tuner Circuit)



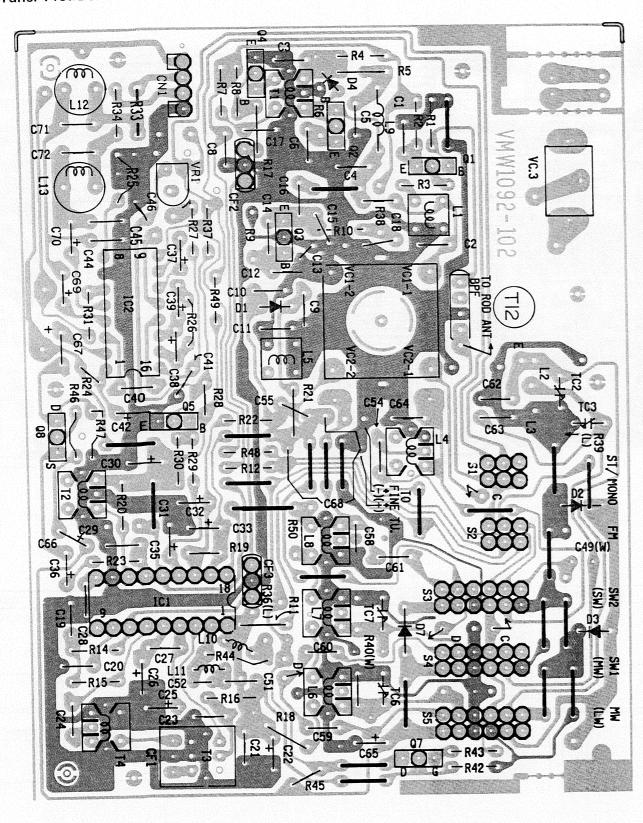
# Standard Schematic Diagram of RC-W3 (Amplifier Circuit)





# P.C. Board Parts and Parts List

Tuner P.C. Board



Earth

Tuner P.C. Board Parts List

 $\underline{\Lambda}$  parts are safety assurance parts. When replacing thos parts, make sure to use the specified one.

1	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	IC01	AN7222N	I.C.		1
	ICO2	AN7410N			1 2
	001,03	2SA1005 (L) 2SC2063 (N)	Transistor		1
	Q04 Q02	2SC930 (E)	"		1
		2SC945 (P,Q)	"		1
	Q05 Q07	2SK104 (H)	"		1
	008	2SK246 (GR)	FET		1
	D02,03,07,08	MA165	Si. Diode		4
	VR01	QVZ3512-103	V. Resistor		1
	S01	QST3521-V01	Push Switch		1
	L02	VQB010B-301	Bar Antenna		1
	L11	VQC1304-001	Coil		1 1
	L09	″ -002	"		1
	L05	VQF1B10-001	OSC Coil		1
	L01	VQF1B12-001	RF Coil	1	1
	L06	VQL7T19-301	OSC Coil		1
	L07	VQM7U01-301	"		1 2
	L12,13	VQP0001-393S	Coil Inductor		1
	L10	VQP0012-8R2			2
	L04,08	VQR7002-302	RF Coil Carbon Resistor		1
	R44	QRD141J-101 " -150	C Resistor		11
	R24 R45	″ -154	"		1
	R19	" -222	"		1
	R18	″ -560	"		1
	R28	″ -562	"		1
	R06,23,26	QRD161J-102	Carbon Resistor		3
	R25,29,48,49	″ -103 ″ -104	, ,		4
	R01	101			
	R05	″ -153 ″ 154	"		1 3
	R07,30,46	″ -154 ″ -183	"		1
	R27 R10,42	″ -222	"		2
	R02	″ -272	"		1
	R04,16,43	″ -331	"		3
	R50	″ -391	"		1
	R09	″ -394	"		1
	R11	″ -470	"		1
	R15,33,34	″ -472			3
	R47	″ -473	"		1
	R12	″ -560	"		1
	R08,14,31	" -561 " 562	"		3
	R20,38,51 R37	″ -562 ″ -822	п		1
		QCC11EM-153	C. Capacitor		2
	C44,45 C08,23	" -223	"		2
	C28	″ -333	"		1
	C40	″ -473	"		1
	C01,06,07,18	QCF11HP-103	"		6
L	24,51				
	C03,19,20,21	″ -223	"		5
	29	QCS11HJ-100	"		1
	C04	// -121	"		1
	C52	″ -150	"		1
	C02	″ -200	"		1
F	C62	″ -270	"		1
	C99	″ -3R0	"		1
l	C54	″ -300	"		1
	C56	″ -360	"		1
L	C55	″ -390	"		1
	C05	″ -471	"		1
	C17,98	″ -5R0	H.		2
	C64	" -8R0 QCT05CH-120	"		1
	C14	201030H-120			1

7	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	C16	QCT05CH-220	C. Capacitor		1
	C11	<i>"</i> -270	C Capacitor		1
	C12	QCT05UJ-150	C. Capacitor		1
	C13	″ -5R0	"		1
	C57	QCT05WK-100	C Capacitor		1
	C63	QCT05YL-3R0	C. Capacitor		1
	C58	QCT05ZL-5R0	C Capacitor		1
	C46	QCY41HK-102	C. Capacitor		1
	C71,72	″ -182	//		2
	C38	QEB41HM-224	E Capacitor		1
	C39	″ -474	"		1
	C27	QEN41EM-475	E. Capacitor		1
	C22,25,42	QET41AR-476	E Capacitor		3
	C30	″ -477	E. Capacitor		1
	C31~33	QET41CR-106	E Capacitor		3
	C26,67	QET41HR-105	"		2
	C36.37	″ -335	"		2
	C65,66	″ -475	"		2
	C59	QFP42AJ-181	P P Capacitor		1
	C61	″ -332	"		1
	C60	″ -391	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1
	C41	″ -471			1
	C69,70	QFV41HJ-823	T F Capacitor		2
	CF02,03	V03059-013	CER. Filter		2
	TC02,03,06,07	QAT3001-053	T. Capacitor		4
	T04	VQT7A11-203	I.F. Transformer		1
	Т03	VQT7A21-102	CER Filter		1
	T01,02	VQT7F12-104M	I.F. Transformer		2
	VC01	QAP1224-521V	V. Capacitor		1
	VC03	QAT5001-004	T. Capacitor		1 1
	BP01	VBP4M3B-003	B. Pass Filter		1

#### Amplifier P.C. Board

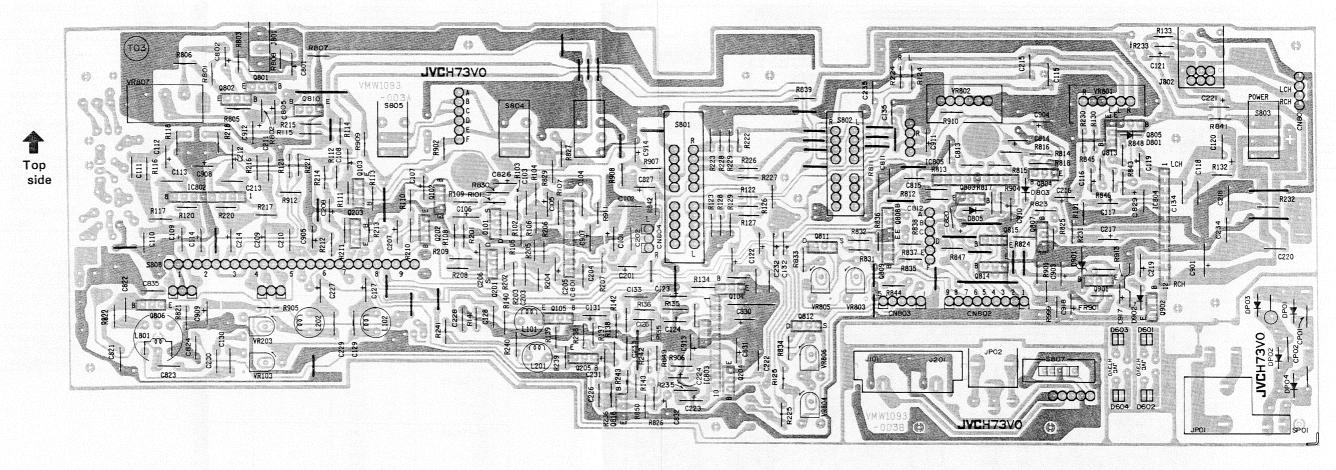


Fig. 26

+ B Circuit
Earth
IC & Transistor

Amplifier P.C. Board Parts List

 $\underline{\wedge}$  parts are safety assurance parts. When replacing thos parts, make sure to use the specified one.

Δ	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	IC805	LA2001	I.C.		1
	IC803	M51164L	I.C. (M)		1
Δ	IC804	TA7233P	I.C.		1
	IC801,802	UPC1228H			2
	Q902	2SB772 (Q,P)	Transistor		1
	Q102,202	2SC2001 (L,K)	"		2
	Q103~105	2SC945 (P,Q)	"		18
	203~205				
	801,802				
	804~810				
	813,815,816				
Δ	Q803,814,901	2SD468 (C)	"		3
	Q101,201	2SK301 (R)	FET		2
	Q811,812	2SK301 (R,S)	TR		2

Δ	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
Δ	D901	HZ7C3	Z Diode		1
	D601~604	LN233RP	L.E.D.		4
	D801,803,902	MA165	Si. Diode		3
	DP01,02	11E1-F	"		2
	D805	" -TB2	"		1
	VR807	QVM2A6A-023M	V. Resistor		1
	VR801	QVN5A6A-054M	"		1
	VR802	QVN5A6D-054M	"		1
	VR803~806	QVZ3512-103	"	1000	4
	VR10,20	″ -104	"		2
	CN801	QMV5004-003	Connector		1
	CN804	QMV5005-003	Plug		1
	CN803	″ -005	"		1
	CN802	″ -009	Connector		1

Δ	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	S802	QSL4310-014	Lever Switch		1
	S801	QSL4410-001	"		1
	S807	QSS1301-101	Slide Switch		1
	S808	QSS9201-001	Slide SW	100	1
	S805	QST2101-V02	Push Switch		1
Δ	S803	″ -V04	"		1
	S804	″ -V05	"		1
⚠	FR901	QRH141J-1R0	Fusi. Resistor		1
	L801	VQH1009-026	OSC Coil		1
	L102,202	VQP0001-103	Inductor		2
	L101,201	″ -562	"		2
	R840	QRD121J-106	Carbon Resistor		1
	R853,854	QRD141J-103	"		2
	R835	″ -153	C Resistor		1

Δ	Ref. No.	Par	ts No.	Parts Name	Remarks	Q'ty
	R813	QRD14	1J-154	C Resistor		1
	R111,211	"	-155	"		2
	R842	"	-182	"		1
	R913	"	-222	"		1
	R821	"	-3R3	"		1
	R822	,,	-333	"		1
	R812	"	-334	"		1
	R801	"	-563	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1
	R910	"	-820	"		1
	R132,232	QRD16	1J-1R0	Carbon Resistor		2
Δ	R118,218,906	"	-101	"		3
	R803,823,826 844	"	-102	"		4

A	Ref. No.	Parts	No.	Parts Name	Remarks	Q'ty	1
	R110,134,143 210,234,243 808,817,824 837,838,839 845~848 907	QRD161	J-103	Carbon Resistor		17	
	R802,818,829 830	"	-104	"		2	
	R831,823 R131,135,231	"	-105 -121	<i>u</i>		4	
	235 R140,240,805	"	-122	"		3	
	R108,139,208 239	и	-123	"		4	
	R113,213 R141,241 R102,117,202	" "	-152 -181 -183	n n		2 2 4	
Δ	217 R106,129,206 229,806,901 904	"	-221	"		7	
	R908 R841,850 R120,136,220	" "	-222 -223 -224	n n		1 2 4	
	236 R101,201 R103,203	"	-225 -272	"		2 2	
	R107,207 R112,114,127 212,214,227	"	-274 -332	n n		7	
	843 R128,228 R124,224 R816,849	" "	-391 -392 -394	" " " " " " " " " " " " " " " " " " " "		2 2 2	
4	R902,909,911 912	"	-470	"		4	
	R123,130,223 230,827	"	-471	"		5	
	R807,815 R125,142,225	, "	-472 -473	"		4	
	242 R137,237	"	-474	"		2	
	R133,233 R126,226,811 833,834	"	-560 -562	n n		5	
	R825 R109,121,209	9 "	-681 -682	"		1 4	
	221 R138,238	"	-683	"		2	
Ī	R115,122,215	5 ″	-822	"		4	
	R814 R999		-823 41J-2R2	Fusi. Resistor		1 1	
	R905 C115,215	acc1	-4R7 1EM-333	C. Capacitor		2	
	C133,233 C815,836		1HP-103	" " " " " " " " " " " " " " " " " " "		2 2 2	
	C813,840 C113,213 C126,226	acs1	-473 1HJ-151 -181	"		2 2	
	C104,130,13 204,230,23		-221	"		6	
	C129,229 C102,202	"	-301 -331	" "		2 2 2	
	C110,210 C835	"		"		_   1	
	C122,222 C128,228 811,822	"	002	n n		4	983

A	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	C103,111,135	QCY41HK-682	C. Capacitor		6
	203,211,235				
	C120,220	QET41AM-477	E Capacitor		2
	C117,119,123	QET41AR-107	"		9
	217,219,223				
	911~913				
	C904,909	QET41AR-227	11		2
	C105,112,205	″ -476	"		8
	212,829,907				
	908,914				
	C903,905	″ -477	E. Capacitor		2
Λ		QET41CR-228	"		1
	C917	<i>"</i> -476	E Capacitor		1
	C814,820,831	QET41ER-106	H.		3
	C910	″ -107	11		1
	C918	″ -226	E. Capacitor		1
	C101,106	QET41HR-105	E Capacitor		20
	107~109				
	114,116,132				
	201				
	206~209				
	214,216,232				
	801,802,805				
	827				
	C127,227	″ -106	"		2
	C121,221,826	″ -335			3
	C124,131,224	″ -475	"		6
	231,830,832				
	C837	QFN41HJ-184	M Cap		1
	C118,218	QFV41HJ-104	F Capacitor		2
	C823	″ -183	T F Capacitor	1	1
	C821	″ -273	"		1
	C812	″ -334	"		1
F	C824	″ -473	"		1
	J801	QMS3501-016	DC Jack		1
	J802	QMS3507-001	Headphone Jack		1
	J101,201	VMJ3007-001	Jack		

#### Power Supply P.C. Board

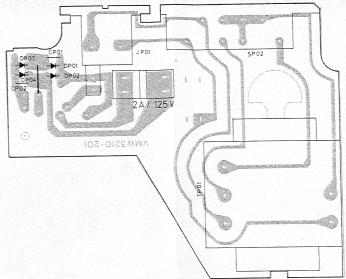


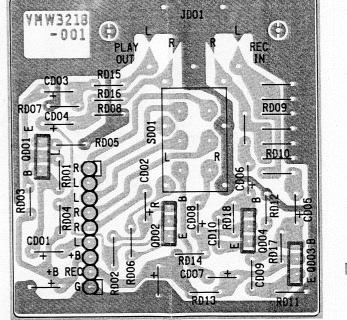
Fig. 27

#### Power Supply P.C. Board Parts List

 $\underline{\Lambda}$  parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Δ	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty	Δ	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
Δ	DP03.04	11E1-F	Si. Diode		2	Δ	TPO1	VTP54N2-12C	Power Transf.		1
3500	SP02	QSS2325-107	Slide Switch		1	Δ		QMF51A2-R80	Fuse	800mAT	1
_	CP01.02	QCF11HP-103	C. Capacitor		2			A44594-002	Fuse Clip		2
	CP03	″ -223	,,,		1			VMZ0015-002	Post Pin		1
A	IPO1	OMC0263-002U	AC Socket		1	<u> </u>					-

#### DIN P.C. Board





+B circuit

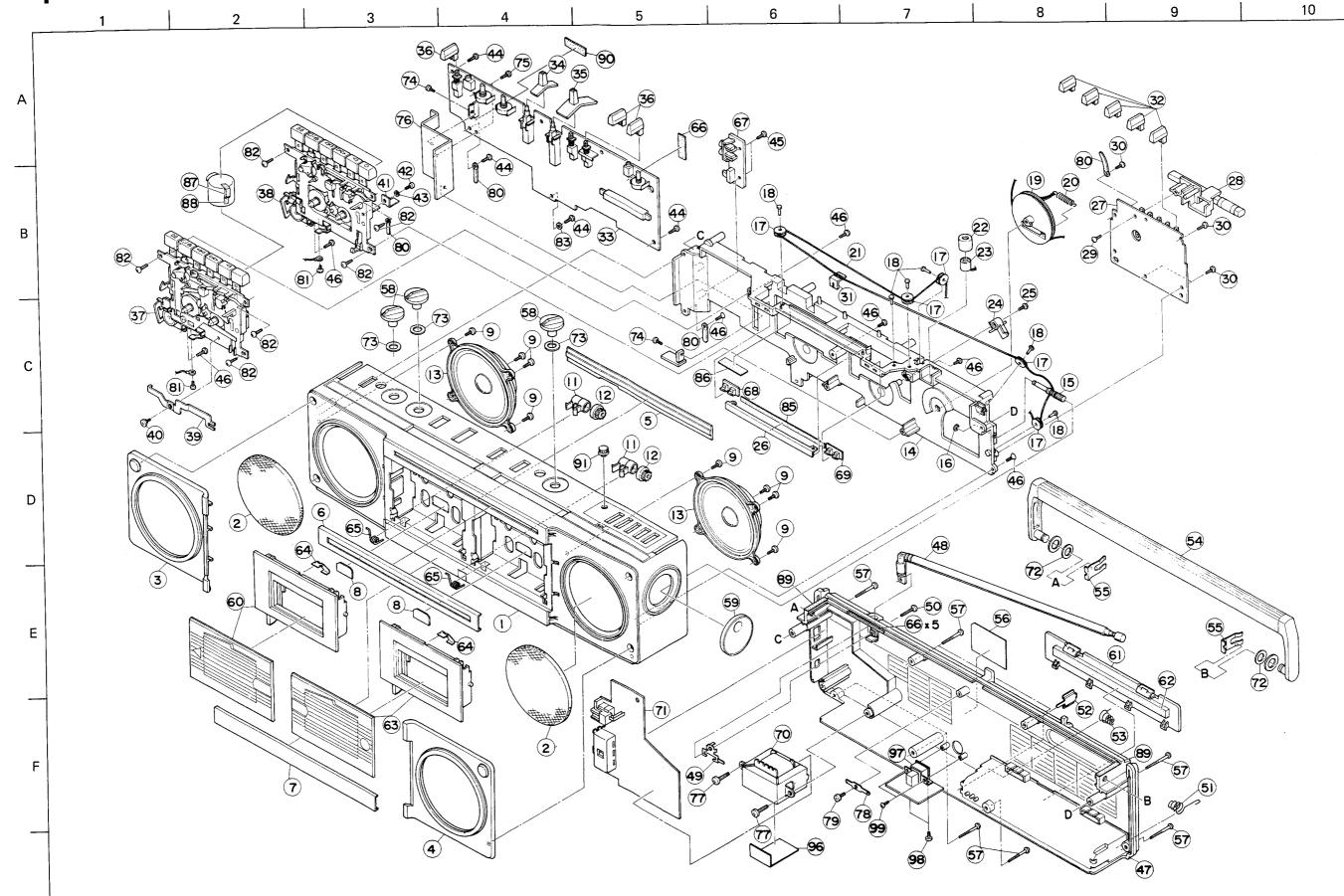
Fig. 28

#### DIN P.C. Board Parts List

 $\underline{\Lambda}$  parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty	Δ	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
DD03,04	2SC945 (P,Q) 2SC945L (P,Q)	Transistor		2 2	2000	RD11,12 RD03,04,13,14	QRD161J-331 " -332	Carbon Resistor		2
DD01,02 DD01 CND1	MA165 0MV5005-009	Si. Diode Connector		2		RD15,16,19,20 RD01,02	" -472 " -824	<i>II</i>		4
SD01	QSP2210-061	Push Switch		1		CD09,10	QCY41HK-471	C. Capacitor		2
RD09,10 RD17,18 RD05,06	QRD161J-103 " -105 " -151	Carbon Resistor		2 2 2		CD99 CD01~08 JD01	QET41AR-476 QET41HR-105 QMC9014-006	E Capacitor  " DIN Socket		2 8 1
RD07,08	″ -224	"		2	_	1	l .			/B.L.

# **Exploded View of Enclosure Assembly**



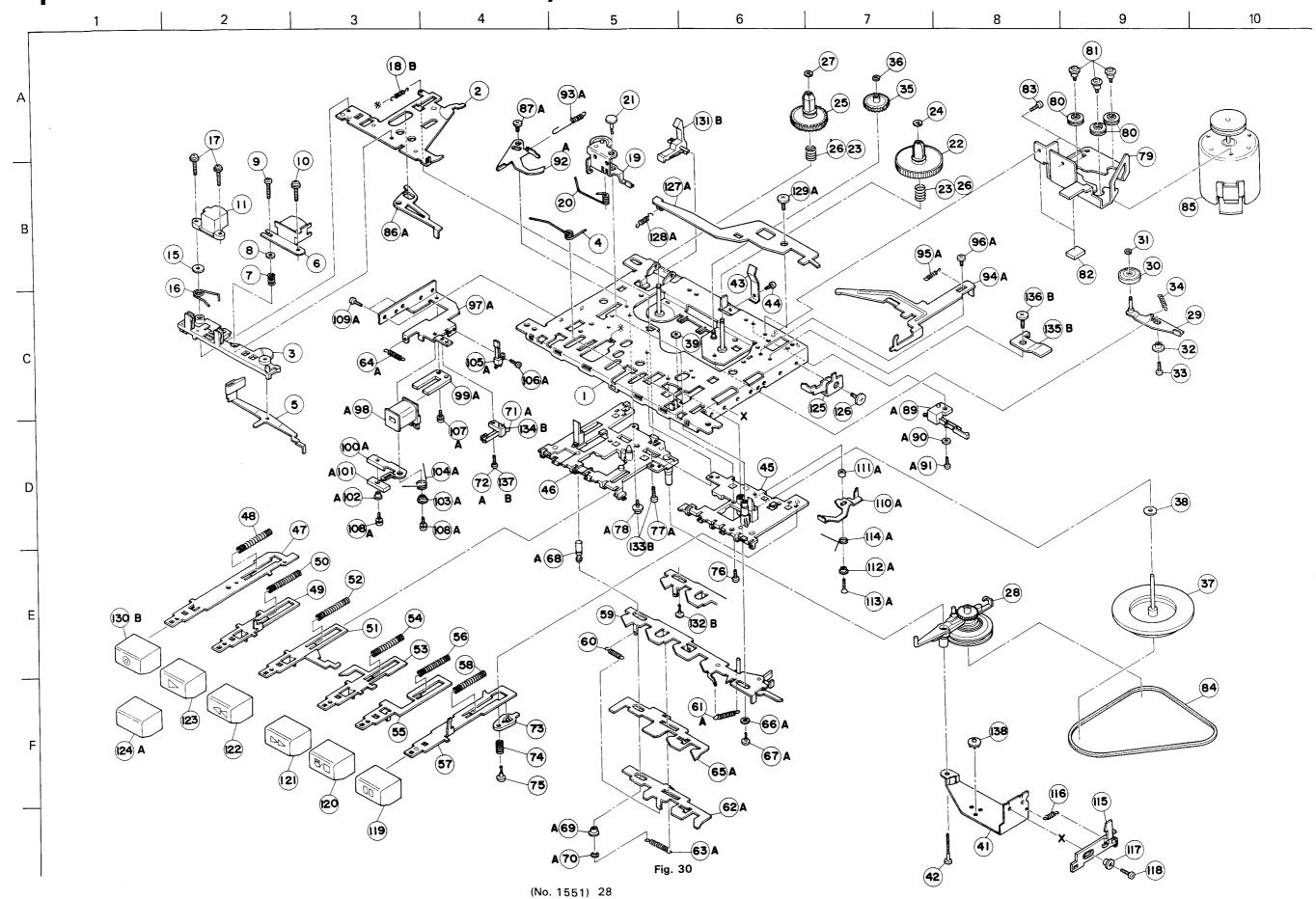
Enclosure Ass'y Parts List

 $\underline{\Lambda}$  parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1~8	ZCRCW3-G	Front Cabinet Ass'y	(GRY)	1
1~0	ZCRCW3Y-R	"	(RED)	1
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ZCRCW3Y-W	"	(WHT)	1
1		Front Cabinet	RC-W3 L/LD	1
1	VJC1356-005	1	110 110 2/22	2
2	VJD4809-001	Punching Panel		
3	VJD3473-104	Speaker Panel (L)	(GRY)	1 1
,,	″ -101	"	(RED)	1
,,	<i>"</i> -102	"	(WHT)	1
1	″ -204	Speaker Panel (R)	(GRY)	1
4 "	″ -201	"	(RED)	1
				1
"	<i>"</i> -202	"	(WHT)	1 -
5	VJK4217-001	Lens		1
6	VJK3233-006	Dial Scale	(GRY)	
, ,	<i>"</i> -009	<b>"</b>	(WHT)	1
"	″ -010	"	(RED)	1
		"	(GRY) RC-W3 LD	1
"	″ -011			1
"	<i>"</i> -012		(WHT) RC-W3 LD	1
7	VJD4810-004	Lower Plate	(GRY)	1
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	″ -006	"	(WHT)	1
,,	<i>"</i> -007	"	(RED)	1
		Definition Distri		2
8	VJD4005-002	Reflection Plate	Speaker	8
9	SBSF3008Z	Screw	Speaker	0
11	VYH4866-001	Dumper Holder		2
12	VYH4769-001	Gear		2
13	VGS 1001-001	Speaker		2
		Chassis		1
14	VYH 1138-001			1
15	VYH4058-001	Tuning Shaft		1
16	REE2000	E Ring		1
17	V40409-2	Roller		5
18	VYH4034-003	Stud		6
19	VYH3267-001	Dial Drum		1
19				1
20	50153-3	Spring	1 210	1
21	VHR 2ZK9-05AT	Dial Cord	1,318 mm	
22	VYH5111-001	Mic Bushing		1
23	WM-063X	E.C. Mic		1
24	VYH5537-001	Lever		1
		Tan Carani		1
25	GBSF3008Z	Tap. Screw		1
26	VJK4218-001	Dial Back		1 .
27		Tuner P.W. Board Ass'y		1
28	VYH5500-002	Bar Antenna Holder	1	1
29	SBSF3010Z	Screw	Antenna Holder	1
	"	"	Tuner P.W.B.	1
30			(GRY/RED)	li
31	VJN4086-002	Pointer		1
"	<i>″</i> -005	"	(WHT)	ı
32	VXP4404-001	Push Knob	Band, FM Mode	5
33	_	Amp. P.W. Board Ass'y		1
	VXQ4063-001	Lever Cap	Monitor Source	1
34		Lever Cap	Rec. Source	1
35	VXQ4066-001		Tico. Jource	j j
36	VXP4406-001	Push Knob		1
37	_	Cassette Mecha Ass'y (A)		i
38	_	" (B)		1
	18000838T	Lever Ass'y	A Mecha	1
39		Collar Screw	"	1
40	18000821T	Rec. Spring Plate	B Mecha	1
41	VYH5276-002		b Mecha	1
42	LPSP2604Z	Screw	"	1
43	WNS2600Z	Washer	"	
	SBSF3010Z	Screw	Amp. P.W.B.	4
44	SBSF30102	"	Jack P.W.B.	2
45	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		7
46	SBSF3014C		(GRY)	1
47,56	, ZCRCW3Y-RGY	Rear Cabinet Ass'y	(Gn )	, '
61,62			(050)	1
01,02	// -RR	, , , , , , , , , , , , , , , , , , , ,	(RED)	

$\Lambda$	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	47,56	ZCRCW3Y-RW	Rear Cabinet Ass'y	(WHT)	1
1	61,62	V4040F7 000	Page Cohinet	(GRY)	1
1	47	VJC1357-006 "-011	Rear Cabinet	(RED)	1
	,,	″ -010	"	(WHT)	1
1	48	VJA3018-00A	Rod Antenna Ass'y		1
	49	VYH4954-001	Rod Antenna Holder		1
j	50	SDSP3010R	Screw	Telescopic Antenna	1
1	51	VYH5503-002	Battery Spring		1 1
	52	VYH5016-001	Battery Contact Battery Spring		1 1
	53	VYH4669-002		(GRY)	1
1	54	VJH4036-00R " -00J	Handle Ass'y	(RED)	1
	"	″ -000 ″ -000	,,	(WHT)	1
	55	VYH5634-001	Spring		2
	56	VYH5093-008	Name Plate	RC-W3 L	1
	"	<i>"</i> -010	"	RC-W3 LD	1
[	57	SBSF3035Z	Screw	Rear Cabinet	8
	58	VXL4226-001	Knob		3
Ì	59	VXL4227-001	Tuning Knob Cassette Door Ass'y	A Mecha (GRY/RED)	1
	60	VJT4089-00G	Cassette Door Ass y	" (WHT)	1
	″ 61.60	" -00E ZCRCW3Y-BGY	Battery Cover Ass'y	" (VMI) (GRY)	1
	61,62	/ -BR	Battery Cover Ass y	(RED)	1
	"	" -BW		(WHT)	1
	61	VJC3065-004	Battery Cover	(GRY)	1
	"	<i>"</i> -001	n	(RED)	1
	"	<i>"</i> -003	"	(WHT)	1
	62	VYSH104-026	Spacer	D Marcha (CDV/DED)	1 1
	63	VJT4089-00H " -00F	Cassette Door Ass'y (B)	B Mecha (GRY/RED) " (WHT)	1
			Consetts Caring	,,,,,,	2
	64 65	VYH5538-001 VYH4941-002	Cassette Spring Door Spring		2
	66	VYSA1R4-050	Spacer		6
	67	_	Jack P.C. Board Ass'y		1
	68	_	LED P.C. Board Ass'y (C)		1
	69	_	" (D)		1
$\Phi$	70	VTP54N2-12C	Power Transformer	TP01 RC-W3 L/LD	1 1
	71 72	VYSS201-004	Power Supply P.C. Board Ass'y Spacer	Handle	2
	73	Q03093-118	Washer	Volume	3
	74	SBSB2608Z	Screw	IC	2
	75	SBSB3008Z	"	Heat Sink	2
	76	VYH5615-001	Heat Sink		1
	77	SBSF4020Z	Screw	Power Trans.	2
	78	V41208-003	Tab	Antenna Relay	1
	79	SBSF3008Z	Screw		1
	80	VKZ4001-007	Wire Holder	A, B Mecha	4 2
	81 82	SDST2605Z SBSF3008Z	Screw	A, b ivicoità	6
	83	Q03093-115	Washer	Amp P.C. Board	1
$\vdash$	85	VYH5618-001	Earth Sheet		1
	86	VYH5618-002	"		1
	87	VYSR101-012	Spacer	Motor	2
	88	F00303-34	"	Rear Cabinet	2 2
	89	VYSA1R6-040		near Cabinet	
	90	VYSS1R1-009	" Eine Tuning Knoh		1 1
	91 96	VXL4243-001 VYH5632-001	Fine Tuning Knob Shield Plate	for Power Trans.	1
	96	VYH5612-001	Bracket	for Din Jack	i
	98	SPST3006Z	Screw	for Din Bracket	2
1	99	SBSF3008Z	"	"	2

# **Exploded View of Mechanism Assembly**



#### **Mechanical Component Parts List**

 $\underline{\Lambda}$  parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

2	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
$\neg$	1	180001501ZT	Mecha Chassis Ass'y		1
	2	18000306T	Head Panel	A Mecha	1
	"	18000316T	"	B Mecha	1
	3	18000305T	Head Base		1
	4	18000307T	Head Panel Spring	A Mecha	1
+	5	180003305ZT	Detect Plate Ass'y		1
ł	6	VGH0421-015	R/P Head		1
	7	14400315T	Head Spring		1
		93120000T	Washer		1
	8 9	92120000T	PM. Screw	R/P Head	1
+			CAP. Screw	"	1
	10	98200000T	Erase Head	A Mecha	1
	11	VGH0102-901	Erase Head	B Mecha	1
	"	V03078-046	LL Machar	0.17	i
	12	97120000T	U Washer	0.2T } for Adj. E. Head	1
	13	97130000T			<u> </u>
1	14	97140000T	"	0.3T J	1 1
	15	93330000T	Washer		
-	16	18001404T	RC Spring		1
-	17	98210000T	CAP. Screw		2
	18	18000307T	Spring (B)	B Mecha Head Panel	1
1	19	180004301ZT	Pinch Roller Arm Ass'y		1
1	20	18000405T	Pinch Roller Spring		1
l	21	17152015T	Stopper		1
-	22	180005303ZT	Take-up Reel Ass'y		1
ı	23	18000508T	Back Tension Spring	A Mecha Take-up & Supply	2
	20	, , , , , , , , , , , , , , , , , , , ,	,	Reel	
$\dashv$	24	97930000T	Polyslider Washer		1
ļ	25	180005302ZT	Supply Reel Ass'y		1
			Back Tension Spring	B Mecha Take-up & Supply	1
	26	18000516T	Back Tellslott opting	Reel	
	,,	18000508T	,,	A Mecha Supply Reel	1
	27	97930000T	Polyslider Washer	, t modila supply modi	1
				A Mecha	1
	28	180006314ZT	RF. Clutch Ass'y	B Mecha	1
	"	180006310ZT	Tala and Dallan Anna Accin	D Mecha	1 1
	29	180006503ZT	Take-up Roller Arm Ass'y		1
	30	18000635T	Take-up Roller		1
	31	94210000T	Polyslider Washer		<b></b>
	32	18000609T	Collar		1
	33	91810000T	TH. Tap. Screw	A Mecha	1
	"	9180000T	"	B Mecha Take-up Roller Arm	1
	34	18000608T	Spring		1
	35	180000610T	F.F. Gear		1
	36	94210000T	Polyslider Washer		1
	37	18000728ZT	Flywheel Ass'y		1
	38	94380000T	Nylon Washer		1
	39	93610000T	, , , , , , , , , , , , , , , , , , , ,		1
	41	18000731T	Flywheel Bracket		1
	+	97170000T	Tap. Screw	Flywheel Bracket	1
	42	_	Back Spring	,	1
	43	15100138T	Tap. Screw		1
	44	92770000T	Button Base (L)		1
	45	18000935BT	// (R)		1
	46	18000934T		A BA1-	<u> </u>
	47	18000978T	Rec. Button Lever	A Mecha	1 1
	"	18000902T	"	B Mecha Rec. Button Lever	
	48	18000903T	Spring		1
		18000940T	Play Button Lever		1
	49		Spring	Play Button Lever	1
		18000957T	) Opining		1
	49 50	18000957T		A Mecha	1
	49 50 51	18000957T 18000942T	REW Button Lever	A Mecha B Mecha	
	49 50 51	18000957T 18000942T 18000906T	REW Button Lever	1	1
	49 50 51	18000957T 18000942T		B Mecha	1 1 1 1

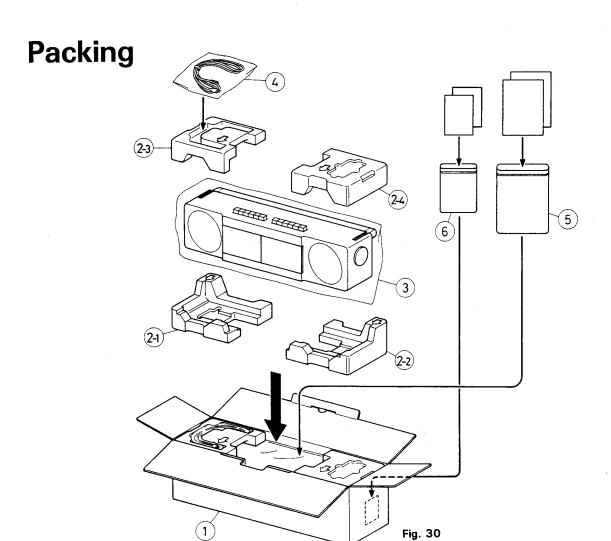
$\triangle$	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	53	18000908T	F.F. Button Lever	B Mecha FF Button Lever	1
	54	18000907T	Spring		1 1
	55	18000909T	Stop Button Lever		1
	56	18000903T	Spring	Stop Button Lever	1
	57	180009501ZT	Pause Button Lever Ass'y	Stop Batter, Berei	1 1
				Pause Button Lever	1
	58	18000957T	Spring	A Mecha	
	59 ″	180009512AZT	Lock Plate Ass'y	B Mecha	
		180009320ZT	Consider		1
	60 ″	18000959T	Spring	A Mecha Lock Plate  B Mecha Lock Plate	1 1
		180000919T			· · · · · · · · · · · · · · · · · · ·
	61	18000963T	<i>"</i>	A Mecha Auto Lever	1
	62	180001406T	Switch Plate	A Mecha	1
	63	18000964T	Spring	A Mecha Switch Plate	1
	64	15590306T	"	A Mecha RF Plate	1
	65	18001602T	RF Plate	A Mecha	1
	66	93330000T	Washer	"	1
	67	18000917T	Lock Plate Boss	"	1
	68	18001603T	Lock Plate Shaft	A Mecha	1
	69	18001604T	Lock Plate Collar	"	1
	70	94990000T	E Ring	A Mecha (REE1200)	1 1
-			Leaf Switch	A Mecha (LSA-1120C) Motor	1
	71 72	64050115T 96750000T	Tap. Screw	A Mecha	
			, ,	A Mecha	
	73	18000979T	Pause Lever	Davies Laver	
ļ	74 75	18000958T	Spring Pause Lever Stopper	Pause Lever	1
		18201032T			
	76	91800000T	TH. Tap. Screw		1
	77	98610000T	Collar Screw		1 1
İ	78	97180000T	"		1
	79	18001049T	Motor Bracket		1
	80	05880910T	Rubber Cushion	Motor	3
	81	12001201T	Collar Screw	"	3
	82	18001023T	Mat	Motor Bracket	2
1	83	92770000T	Tap. Screw	"	2
	84	18001061T	Main Belt		1
$\triangle$	85	180010335ZT	Motor Ass'y		1
	86	18001411T	RC Arm B	A Mecha	1
	87	17001202T	Collar Screw	"	1
	89	64010164T	Leaf Switch	A Mecha MSW-1259	1
	90	93120000T	Washer	"	1
	91	91810000T	TH. Tap. Screw	"	
					<u> </u>
	92	18001402T	Return Arm		1
	93	18001407T	Spring	A Mecha Return Arm	1
1	94	18001412T	Timing Plate		1
ŀ	95	18200312T	Spring	A Mecha Timing Plate	1
	96	17001202T	Collar Screw		1
	97	18001605T	CS. Bracket	"	1
	98	18001612ZT	Coil Ass'y	"	1
	99	17001513T	Core B	"	1
	100	17001629T	Amature Plate	" MSW-1373	1
	101	18001606T	RF Amature	"	1
	102	17001630T	Amature Collar	"	1
	103	17001647T	Collar	"	1
	104	18001607T	Spring	"	1
1	105	64010165T	Leaf Switch	"	1
	106	90020000T	Screw	"	1
	107	90980000T	Ass'y Screw	"	1
	108	90780000T	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	"	2
	109	92770000T	Tap. Screw	"	2
	110	18001618T	Auto Safety Plate	"	1
	111	18001609T	Spacer	"	l i
-			Metal	"	<del> </del>
	112	18001610T			1
	113	98060000T	Screw	A Mecha	<u>'</u>

Δ	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	114 115	18001611T 18001101AT	Spring Eject Slide lever	A Mecha Auto Safety Plate	1
	116	18001123T	Spring	Eject Slide Lever	1
	117	15101103T	Collar		1
	118	90390000T	Screw		1 1
	119	VXP3110-001	Push Button	Pause	1
	120	<i>"</i> -002	"	Stop/Eject	1
	121	<i>"</i> -003	"	FF	1
1	122	″ -004	"	REW	1
	123	″ -005	"	Play	1
	124	″ -007	"	A Mecha Synchro Pause Release	1
	125	VKL5638-001	Kick Lever		1
	126	18000821T	Collar Screw		1
	127	18000839T	Lever (B)	A Mecha	1
	128	02681201T	Spring	"	1
	129	18000821T	Collar Screw	"	1
	130	VXP3110-006	Push Button	B Mecha Rec	1
	131	18000201T	Rec. Safety Lever	"	1
	132	17000921T	Lock Plate Boss	"	1
	133	91810000T	TH. Tap. Screw	" Button Base (L)	2
	134	64050115T	Leaf Switch	" LSA-1120C	1
	135	18000841T	Arm Switch Plate	"	1
	136	18000821T	Collar Screw	" Arm Lever Plate	1
1	137	96740000T	Tap. Screw	" Leaf Switch	1
	138	07131104T	Spacer		1

## **Accessories**

 $\underline{\Lambda}$  parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

Δ	Parts No.	Parts Name	Remarks	Q'ty
	VNM0970-301	Instruction Book	RC-W3 L/LD	1
	QMP3950-183	Power Cord	RC-W3 L/LD	1
	BT20065	Warranty Card	RC-W3 LD	1
	BT20066	,,	RC-W3 LD	1
	BT20054-003A	Caution Sheet	RC-W3 LD	1



**Packing Parts List** 

 $\underline{\Lambda}$  parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

$\triangle$	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1	VDP5093-J15	Carton	RC-W3 L	1
	,,	″ -J17	"	RC-W3 LD	1
	2-1	VPH2199-001	Lower Cushion	Left	1
	2-2	VPH2200-001	"	Right	1
	2-3	VPH2201-001	Upper Cushion	Left	1
	2-4	VPH2202-001	"	Right	1
	3	VPE3004-030	Poly Bag	for Unit	1
	4	AP4056A-36	,,,	for Power	1
	5	VPE3004-007	"	for Instruction Book	1
		VPZ4001-001	Serial Ticket		1



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